

## Type catalogue of the Crustacea Decapoda in the collections of the Museu de Zoologia da Universidade de São Paulo, Brazil

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*Abstract.*—Data and pertinent information on the type specimens of eighty-four species of Crustacea Decapoda held in the Museu de Zoologia da Universidade de São Paulo, Brazil, are provided. The taxa are arranged in alphabetic order. Included are references where all taxa were described, collection data, and changes in nomenclature.

*Resumo.*—São apresentados dados e informações referentes aos espécimes-tipo de oitenta e quatro espécies de Crustacea Decapoda, depositados na coleção carcinológica do Museu de Zoologia da Universidade de São Paulo, Brasil. O tratamento das espécies é feito em ordem alfabética dentro das famílias, e uma lista de referências inclui todos os trabalhos nos quais as espécies foram descritas.

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### Brief History of Museu de Zoologia da Universidade de São Paulo

The origin of Museu de Zoologia da Universidade de São Paulo can be traced back to 1886, the year of foundation of the Comissão Geográfica e Geológica (Geographical and Geological Commission, CGG) of the Province of São Paulo. The aim of the Commission was to improve scientific knowledge of the province.

In the last decade of the XIX century, Francisco de Paula Mairynk acquired private collections belonging to Colonel Joaquim Sertório and offered them to the provincial government in order to create a State Museum. After several years, these collections were incorporated into collections already held by the Comissão Geográfica e Geológica. This acquisition created the nucleus of a museum of natural history.

By the end of 1893, the State Museum received the name Museu Paulista. In 1895, as a commemoration of Brazilian indepen-

dence, the present building of the Museu Paulista was inaugurated. This building is located near the streamlet where Emperor Dom Pedro I proclaimed independence for Brazil.

The Section of Zoology of the Museu Paulista was established in 1925. In 1939 the Section was transferred to the Department of Zoology of the Secretariat of Agriculture, Industry, and Commerce of the state of São Paulo. A new building was then constructed in order to accommodate the collections.

In 1969, The University of São Paulo incorporated the Department of Zoology into its bureaucratic structure. At that time the Department received its present name of Museu de Zoologia (MZUSP).

### The Crustacea Collection

The carcinological collection of the MZUSP was established on 19 March 1962, with 76 dried specimens found in the basement of the museum. Through 1966,

the collection was augmented by collections from rivers, mangrove swamps, and beaches. The acquisition in 1967 of the Oceanographic Vessel *Prof. W. Besnard* by the Oceanographic Institute of the University of São Paulo (IOUSP) then enabled significant quantitative and qualitative improvements in the collection. The partnership between MZUSP and IOUSP in projects Ilha Grande (1966–1969) and GEDIP (Grupo Executivo do Desenvolvimento da Indústria da Pesca) I (1968–1969) and II (1972), in addition to other, less extensive surveys, was crucial in bringing the collection to its present state.

The collection was originally intended to lodge only species of the order Decapoda, because of space limitations. Nevertheless, other excellent collections were eventually added, for instance that of Cirripedia, donated by Dr. Paulo S. Young of the Museu Nacional do Rio de Janeiro, and a collection of Isopoda assembled by the late Dr. Plínio Soares Moreira of IOUSP. Presently, the collection includes approximately 15,000 lots, and about 230,000 specimens of Decapoda, which are chronologically registered and sequentially numbered. There are about 6000 uncatalogued lots. This collection is considered one of the best in Latin America.

#### Organization of Catalogue

The catalogue presented herein includes all type specimens of Decapoda presently held in the MZUSP collection. Data and information on 84 species of Crustacea Decapoda are presented, including Brachyura (46), Anomura (17), Caridea (10), and Thalassinidea (11). All specimens are preserved in 70% ethanol.

The highest hierarchical levels (superfamilies and families) are ordered according to Martin & Davis (2001). The genera and species are arranged alphabetically within each family.

Species are listed by the scientific name under which each was originally described. Information regarding any subsequent name

changes is provided in the Remarks with a reference to the source of the change. Inconsistencies between the original description and the type specimen, register number, label or any additional comment are also noted. Instances of type specimens which have been donated to or lodged in other museums are also noted in the Remarks.

Only types as recognized by the International Code of Zoological Nomenclature (1999), hereafter referred to as the ICZN, are included in this list.

The collection includes some specimens considered “possible-types”. This material, being potentially useful for future research on the group, is included in this paper, and pertinent details explained in the Remarks.

Other abbreviations used: coll (collector); DOUFPE (Departamento de Oceanografia da Universidade Federal de Pernambuco); EPA (Expedição Permanente do Amazonas); INPA (Instituto Nacional de Pesquisas da Amazônia); ITA (Instituto das Tecnologias Ambientais); juv (juvenile or juveniles); ovig. (ovigerous); Proj (Project); RD (Project Rio Doce); sta (station); TAAF MD 55 (Terres Australes et Antarctiques Françaises); UFRGS (Universidade Federal do Rio Grande do Sul).

Suborder Pleocyemata Burkenroad, 1963  
Infraorder Caridea Dana, 1852

Superfamily Palaemonoidea Rafinesque, 1815

Family Palaemonidae Rafinesque, 1815  
*Macrobrachium birai*, Lobão, Melo, & Fernandes, 1986:50

*Holotype*.—♂, Rio Branco, tributary of Rio Itapitangui, Cananéia, State of São Paulo, 24°54'44"S, 47°58'30"W, coll. V. L. Lobão and W. M. Fernandes, Dec 1984, MZUSP 8027.

*Paratypes*.—All same data as holotype: 1 ♂, MZUSP 8028; 1 ♂, MZUSP 8029; 1 ♂, MZUSP 8030; 1 ♂, MZUSP 8031; 1 ♂, MZUSP 8032; 1 ♀, MZUSP 8033.

*Remarks*.—This species was redescribed in a later paper by Melo et al. (1988:89).



*Macrobrachium holthuisi* Genofre & Lobão, 1978:273, fig. 1

*Holotype*.—♂, Rio Guaecá, São Sebastião, State of São Paulo, coll. V. Lobão, 21 Sep 1978, MZUSP 5283.

*Paratypes*.—4 ♀, same data as holotype, MZUSP 4830.

*Macrobrachium inpa* Kensley & Walker, 1982:6, figs. 7–9, 12c

*Paratype*.—1 ♂, Igarapé in the forest reserve of INPA, Campina, km 60 BR-174, State of Amazonas, 21 Jan 1981, MZUSP 7014.

*Macrobrachium petronioi* Melo, Lobão, & Fernandes, 1986:51

*Holotype*.—♂, Rio Branco, tributary of Rio Itapitangui, Cananéia, State of São Paulo, 24°54'44"S, 47°58'30"W, coll. V. L. Lobão and W. M. Fernandes, Dec 1984, MZUSP 8034.

*Paratypes*.—All same data as holotype: 1 ♂, MZUSP 8035; 1 ♂, MZUSP 8036; 1 ♀, MZUSP 8037; 1 ♀, MZUSP 8038.

*Remarks*.—This species was redescribed in a later paper by Melo et al. (1988:92).

*Pseudopalaemon gouldingi* Kensley & Walker, 1982:18, figs. 20, 21

*Paratypes*.—118 juv, near the mouth of Rio Urubaxi, State of Amazonas, coll. M. Golding, 11 Feb 1980, MZUSP 7013.

Superfamily Alpheoidea Rafinesque, 1815

Family Alpheidae Rafinesque, 1815

*Alpheus chacei* Carvacho, 1979:455, figs. 4–6

*Holotype*.—♀ ovig, Balneário Atalaia, State of Sergipe, coll. M. A. Santos, 12 Jul 1972, MZUSP 4545.

*Alpheus estuariensis* Christoffersen, 1984:191, figs. 1, 2

*Holotype*.—♂, Estuary of Rio Potengi, Natal, State of Rio Grande do Norte, in

nursery of shrimps, mud, coll. S. L. S. Bueno, 26 Jan 1979, MZUSP 4544.

*Alpheus pouang* Christoffersen, 1979:324

*Holotype*.—♂, Proj Sol, sta 1019, 23°39'S, 43°37'W, 27 May 1970, MZUSP 4543.

*Lepthalpheus axianassae* Dworschak & Coelho, 1999:477, figs. 1–30

*Paratypes*.—1 ♀, 1 ♂, Praia do Araçá, São Sebastião, State of São Paulo, coll. V. R. Coelho and S. de A. Rodrigues, 9 Aug 1998, MZUSP 13010.

Superfamily Processoidea Ortmann, 1890

Family Processidae Ortmann, 1890

*Processa brasiliensis* Christoffersen, 1979:364

*Paratypes*.—2 ♂, R/V *Calypso*, sta 77, 18°00'S, 38°18'W, 48 m, 28 Nov 1961, MZUSP 4554.

Infraorder Thalassinidea Latreille, 1831

Superfamily Callianassoidea Dana, 1852

Family Callianassidae Dana, 1852

*Biffarius delicatulus* Rodrigues & Manning, 1992a:324, figs. 1a–w

*Holotype*.—♂, Praia do Araçá, São Sebastião, State of São Paulo, near mangrove, coll. S. de A. Rodrigues, 18 May 1985, MZUSP 10582.

*Callianassa guara* Rodrigues, 1971:210, figs. 61–76

*Holotype*.—♂, Guarujá, State of São Paulo, coll. T. K. S. Björnberg, Oct 1961, MZUSP 2729.

*Remarks*.—Transferred to *Sergio* Manning & Lemaitre, 1994 by Manning & Lemaitre (1994:39).

*Callianassa guassutinga* Rodrigues, 1971:204, figs. 41–60

*Holotype*.—♂, Praia do Araçá, São Sebastião, State of São Paulo, coll. S. de A. Rodrigues, Sep 1965, MZUSP 2728.

*Remarks.*—Transferred to *Sergio Manning & Lemaitre*, 1994 by Manning & Lemaitre (1994:39).

*Callianassa mirim* Rodrigues, 1971:214, figs. 77–98

*Holotype.*—♂, Baia de Santos, State of São Paulo, coll. S. de A. Rodrigues, Mar 1966, MZUSP 2730.

*Remarks.*—Transferred to *Sergio Manning & Lemaitre*, 1994, by Manning & Lemaitre (1994:39).

*Eucalliax cearensis* Rodrigues & Manning, 1992a:327, figs. 2a–v

*Holotype.*—♂, Barra do Rio Ceará, Fortaleza, State of Ceará, coll. S. de A. Rodrigues, 21 Feb 1984, MZUSP 10583.

*Lepidophthalmus sinuensis* Lemaitre & Rodrigues, 1991:625, figs. 1–4

*Paratypes.*—5 ♀, Fazenda Agrosoledad, Córdoba, Colombia, nursery of Penaeidae, coll. S. de A. Rodrigues & R. Lemaitre, 20 Jul 1990, MZUSP 10751.

*Lepidophthalmus siriboia* Felder & Rodrigues, 1993:367, figs. 2e–h, 4a–f, 5a–g, 6a–l

*Holotype.*—♂, Rio Anil, São Luiz, State of Maranhão, coll. D. Felder and S. de A. Rodrigues, 18 Feb 1984, MZUSP 11083.

*Paratypes.*—8 ♀, same data as holotype, MZUSP 11084.

*Poti gaúcho* Rodrigues & Manning, 1992b:10, figs. 1a–v

*Holotype.*—♀, State of Rio Grande do Sul, 33°43'S, 51°13'W, coll. S. de A. Rodrigues, MZUSP 10581.

Family Laomediidae Borradaile, 1903  
*Axianassa australis* Rodrigues & Shimizu, 1992:317, figs. 1–20

*Holotype.*—♂, Fazenda Maricultura, Valença, State of Bahia, near mangrove

swamp, coll. S. L. S. Bueno, Mar 1983, MZUSP 10584.

Superfamily Axioidea Huxley, 1879

Family Axiidae Huxley, 1879

*Eutrichocheles pindatyba* Rodrigues & Kensley, 1991:556, figs. 1–16

*Holotype.*—♂, Santa Cruz, State of Espírito Santo, 19°57'S, 40°08'W, coll. M. L. Christoffersen, Mar 1979, MZUSP 10580.

*Remarks.*—Transferred to *Paraxiopsis De Man*, 1905 by Kensley (1996:709).

Family Micheleidae Sakai, 1992

*Meticonaxius capricorni* Coelho, 1987:64, figs. 1a–d, 2a, b, 3

*Holotype.*—♀, R/V *Alm. Saldanha*, Proj Sul II, sta 10, 23°52'S, 43°11'W, 27 Mar 1972, MZUSP 7113.

*Paratype.*—1 ♂, R/V *Alm. Saldanha*, Cabo São Tomé, State of Rio de Janeiro, sta 9, 11 Feb 1969, MZUSP 7114.

Infraorder Anomura MacLeay, 1838

Superfamily Galattheoidea Samouelle, 1819

Family Aeglidae Dana, 1852

*Aegla franca* Schmitt, 1942:476, fig. 51, pl. 26d

*Paratypes.*—3 ♂, Franca, State of São Paulo, coll. E. Garbe, Oct 1910, MZUSP 622.

*Aegla inermis* Bond-Buckup & Buckup, 1994:221, figs. 35a–e, 76a

*Paratype.*—1 ♀, Arrôio Kilômetro, tributary of Arrôio Cará, Osório-Borussia, State of Rio Grande do Sul, coll. A. Rossi, 23 Jan 1979, MZUSP 11278 (Formerly UFRGS 345P).

*Aegla itacolomiensis* Bond-Buckup & Buckup, 1994:212, figs. 31a–e, 75d

*Paratype.*—1 ♀, Arrôio Demétrio, Fazenda Fialho, Taquara, State of Rio Grande do Sul, coll. G. Bond-Buckup, Mar 1989, MZUSP 11280 (Formerly UFRGS 881P).



*Aegla jarai* Bond-Buckup & Buckup,  
1994:229, figs. 40a–e, 72c

*Paratypes*.— 2 ♂, Arroio Bandeirinha, Lages, State of Santa Catarina, coll. A. Rossi, 22 Apr 1978, MZUSP 11279 (Formerly UFRGS 249P).

*Aegla ligulata* Bond-Buckup & Buckup,  
1994:216, figs. 33a–e, 74a

*Paratype*.— 1 ♀, Arrôio Carvalho, Terra de Areia, State of Rio Grande do Sul, coll. L. Buckup, 9 Nov 1977, MZUSP 11273 (Formerly UFRGS 252P).

*Aegla microphthalma* Bond-Buckup & Buckup, 1994:262, figs. 61a–e, 70c

*Holotype*.— ♀, Caverna Santana, Iporanga, State of São Paulo, coll. E. Trajano, MZUSP 7405.

*Paratypes*.— 1 ♀, same data as holotype, MZUSP 7408; 2 ♂, 2 ♀, same data as holotype, MZUSP 11274.

*Aegla perobae* Hebling & Rodrigues,  
1977:290, figs. 1a–e

*Holotype*.— ♂, Caverna Peroba, São Pedro, State of São Paulo, 18 Jan 1973, MZUSP 4005.

*Paratypes*.— 12 ♂, 4 ♀, same data as holotype, MZUSP 4006.

*Aegla rosanae* Campos Jr., 1998:137,  
figs. 1–4

*Holotype*.— ♂, head-water of cõrrego Benfica, Bacia do Rio Paraíba, Piquete, State of São Paulo, coll. R.S. Lima, O. Takeshi and O. Campos Jr., 26 Jun 1992, MZUSP 11162.

*Remarks*.— Considered a junior synonym of *Aegla paulensis* Schmitt, 1942:490 by Bond-Buckup & Buckup (2000:385).

*Aegla rossiana* Bond-Buckup & Buckup,  
1994:208, figs. 29a–e, 73a

*Paratypes*.— 1 ♀, 2 ♂, Rio Jordão, Criciúma, State of Santa Catarina, coll. L.

Buckup, 17 Sep 1977, MZUSP 11274 (Formerly UFRGS 230P).

*Aegla spinosa* Bond-Buckup & Buckup,  
1994:224, figs. 37a–e, 72d

*Paratypes*.— 1 ♂, 1 ♀, Rio São João, Campos Novos, km 310, State of Santa Catarina, coll. A. Rossi, 22 Apr 1978, MZUSP 11276 (Formerly UFRGS 246P).

*Aegla violacea* Bond-Buckup & Buckup,  
1994:210, figs. 30a–e, 76b

*Paratypes*.— 1 ♂, 1 ♀, Arroio do Cerro Negro, Guaíba, Mariana Pimentel, State of Rio Grande do Sul, coll. L. Buckup, D. Schossler and N. Fontana, 10 May 1988, MZUSP 11281 (Formerly UFRGS 1123P).

Family Galatheidae Samouelle, 1819  
*Munida atlantica* Melo Filho & Melo,  
1994:50, figs. 1–7

*Holotype*.— ♀, Aracati, State of Ceará, R/V *Canopus*, sta 45, 04°14'S, 37°22'W, 58 m, Aug 1965, MZUSP 11387.

*Munida brasiliae* Coelho, 1973f:344

*Paratypes*.— 5 ♂, 3 ♀, R/V *Alm. Saldanha*, sta 1708, 02°44'S, 39°01'W, 66 m, 22 Oct 1967, MZUSP 6611.

*Remarks*.— Considered a synonym of *Munida angulata* Benedict, 1902 by Melo-Filho & Melo (2001:1143).

*Munida heblingi* Melo-Filho & Melo,  
1994:53, figs. 8–14

*Holotype*.— ♂, R/V *Alm. Saldanha*, Proj Leste I, sta 1953A, State of Espírito Santo, MZUSP 11388.

*Munida petronioi* Melo Filho & Melo,  
1994:55, figs. 15–21

*Holotype*.— ♂, R/V *Alm. Saldanha*, Proj Norte-Nordeste I, sta 1684B, 03°59'S, 35°53'W, 75 m, 18 Oct 1967, MZUSP 11389.

*Munida victoria* Melo-Filho, 1996:272,  
figs. 1–7

*Holotype*.—♂, R/V *Marion Dufrèsne*, Proj TAAF-55 BR, sta 55, 19°40'S, 38°43'W, 900 m, 30 May 1987, MZUSP 12256.

Family Porcellanidae Haworth, 1825  
*Porcellana paivacarvalhoi* Rodrigues da  
Costa, 1968c:405r

*Paratype*.—1 ♂, Bairro São Francisco, São Sebastião, State of São Paulo, MZUSP 8951.

*Remarks*.—Considered a synonym of *Porcellana platycheles* Pennant, 1777 by Veloso & Melo (1993:171).

Infraorder Brachyura Latreille, 1802  
Section Dromiacea De Haan, 1833  
Superfamily Dromioidea De Haan, 1833  
Family Dromiidae De Haan, 1833  
*Dromia gouveai* Melo & Campos Jr.,  
1999:281, figs. 3a, b

*Holotype*.—♂, Salvador, Geribotuba, State of Bahia, MZUSP 10222.

*Paratype*.—1 ♂, Saco de Mamanguá, Santos, State of São Paulo, MZUSP 5526.

Superfamily Homoloidea De Haan, 1839  
Family Latreilliidae Stimpson, 1858  
*Latreillia williamsi* Melo, 1990b:28,  
figs. 1, 2

*Holotype*.—♂, R/V *Prof. W. Besnard*, Proj GEDIP, State of Rio Grande do Sul, sta 396, 34°26'S, 51°47'W, 155 m, sand and gravel, 27 Aug 1968, MZUSP 3295.

*Paratypes*.—All same data as holotype: 1 ♀, MZUSP 5492; 1 ♀, MZUSP 5493; 1 ♂, MZUSP 5494.

Section Eubrachyura de Saint Laurent, 1980  
Subsection Raninoidea De Haan, 1839  
Superfamily Raninoidea De Haan, 1839  
Family Raninidae De Haan, 1839  
*Ranilia guinotae* Melo & Campos Jr.,  
1994:69, figs. 16–22

*Holotype*.—♂, Santos, State of São Paulo, stomach content of the fish *Diplectrum formosum* Linnaeus, MZUSP 10932.

*Paratype*.—1 ♂, same data as holotype, MZUSP 11106.

*Ranilia saldanhai* Rodrigues da Costa,  
1970:33, fig. 1

*Holotype*.—♂, R/V *Alm. Saldanha*, dredging, 26–60 m, 07°55'S, 34°48'W, MZUSP 8223.

*Remarks*.—Considered a synonym of *Ranilia muricata* H. Milne Edwards, 1837 by Melo & Campos Jr. (1994:69). The holotype is a male and not a female as listed by Rodrigues da Costa (1970:33).

Superfamily Cyclodorippoidea Ortmann,  
1892

Family Cyclodorippidae Ortmann, 1892  
*Clythrocerus analogus* Coelho, 1973d:343

*Paratype*.—1 ♀, R/V *Alm. Saldanha*, Proj Norte-Nordeste, sta 1743A, 75 m, 00°51'S, 43°41'24"W, MZUSP 4828.

*Remarks*.—Transferred to *Deilocerus* Tavares, 1996 by Tavares (1996:275).

*Clythrocerus bidentatus* Campos Jr. &  
Melo, 1999:7, figs. 1, 2

*Holotype*.—♀, R/V *Prof. W. Besnard*, Proj Monitoramento, sta 28, 22°24'S, 40°42'W, 60 m, 09 Aug 1991, MZUSP 11077.

*Clythrocerus carinatus* Coelho, 1973c:343

*Paratypes*.—1 ♂, 1 ♀, R/V *Alm. Saldanha*, Proj Norte-Nordeste, sta 1804B, 27 m, sand, 25 Nov 1967, MZUSP 4827; 1 ♀, R/V *Alm. Saldanha*, Proj Geomar, sta 27, 00°02'30"S, 46°15'00"W, 5 Jun 1968, MZUSP 4825; 1 ♀, R/V *Alm. Saldanha*, Proj Norte-Nordeste, sta 1763, 00°25'S, 47°17'W, MZUSP 12044.

*Cyclodorippe angulata* Tavares, 1991:633,  
figs. 6b, 8c, 11a–c

*Holotype*.—♀, R/V *Marion Dufrèsne*, Proj TAAF MD55-BR, sta 16, 310–360 m, 20°26'S, 36°41'W, 2 Jun 1987, MZUSP 10266.



*Cyclodorippe longifrons* Campos Jr. & Melo, 1999:38, figs. 1, 2

*Holotype*.—♂, Proj Monitoramento, sta 05, 21°20'S, 40°16'W, 115 m, 18 Jul 1991, MZUSP 12055.

*Paratypes*.—All same data as holotype: 1 ♀, MZUSP 12056; 1 ♀, MZUSP 12057.

*Deilocerus coelhoi* Campos Jr. & Melo, 1998:130, figs. 1, 2

*Holotype*.—♂, Proj Monitoramento, sta 57, 23°36'S, 41°56'W, 170 m, 20 Aug 1991, MZUSP 11523.

*Paratypes*.—All same data as holotype: 1 ♀, MZUSP 11524; 1 ♀, MZUSP 11522.

Family Cymonomidae Bouvier, 1897  
*Cymonomus guillei* Tavares, 1991:639, figs. 7b, 8d, 9b, 11d

*Holotype*.—♀, R/V *Marion Dufrèsne*, Proj TAAF MD55-BR, sta 54, 19°36'S, 38°53'W, 640 m, 30 May 1987, MZUSP 10268.

*Cymonomus guinotae* Tavares, 1991:640, figs. 7c, 8b, 9c, 10a–c

*Holotype*.—♀, R/V *Marion Dufrèsne*, Proj TAAF MD55-BR, sta 64, 23°46'S, 42°10'W, 610 m, 2 Jun 1987, MZUSP 10269.

*Remarks*.—Transferred to *Cymonomides* Tavares, 1993 by Tavares (1993:141).

*Cymonomus magnirostris* Tavares, 1991:635, figs. 7a, 8e, 9a, 10d–f

*Holotype*.—♀, R/V *Marion Dufrèsne*, Proj TAAF MD55-BR, sta 64, 23°46'S, 42°10'W, 610 m, 2 Jun 1987, MZUSP 10267.

*Cymonomus meloi* Campos Jr., 1997:129, fig. 1

*Holotype*.—♂, Proj Integrado, Ubatuba, State of São Paulo, MZUSP 10771.

*Cymonomus oyakawai* Campos Jr., 1997:131, fig. 2

*Holotype*.—♂, R/V *Prof. W. Besnard*, Proj GEDIP, State of Rio Grande do Sul, sta 1646, 34°25'S, 51°49'W, 166 m, 18 Jan 1972, MZUSP 6161.

*Cymonomus tavaresi* Campos Jr., 1997:132, fig. 3

*Holotype*.—♀, R/V *Emília*, Proj Ilha Grande, State of Rio de Janeiro, sta C. (288), 2 m, 30 Jul 1966, MZUSP 9193.

Subsection Heterotremata Guinot, 1977  
Superfamily Leucosioidea Samouelle, 1819

Family Leucosiidae Samouelle, 1819  
*Ebalia conica* Coelho, 1973a:342

*Holotype*.—♂, R/V *Alm. Saldanha*, sta 1784, off Cabo Norte, State of Amapá, 03°08'S, 49°07'W, 85 m, 16 Nov 1967, MZUSP 6603.

*Paratypes*.—1 ♂, 1 ♀, R/V *Alm. Saldanha*, sta 1677, 04°41'S, 35°24'W, 65 m, 17 Oct 1967, MZUSP 6551; 1 ♂, R/V *Alm. Saldanha*, sta 1676A, 04°46'S, 35°24'W, 39 m, 16 Oct 1967, MZUSP 6561.

*Remarks*.—Transferred to *Lithadia* Bell, 1855 by Coelho & Ramos-Porto (1986:67).

*Ebalia obliqua* Coelho, 1973b:342

*Holotype*.—♂, North of State of Pernambuco, Proj ITA, 37 m, 17 Jan 1969, MZUSP 6544.

*Paratypes*.—1 ♂, 2 carapaces, R/V *Alm. Saldanha*, Proj Geomar, sta 34, 00°21'S, 46°58'W, 30 m, 7 Jun 1968, MZUSP 6554; 1 ♂ juv, Proj Pernambuco, sta 27, 03 Feb 1969, MZUSP 6558; 1 ♂, Proj Pernambuco, sta 35B, 07 Feb 1969, MZUSP 6556.

*Remarks*.—Transferred to *Lithadia* Bell, 1855 by Coelho & Ramos-Porto (1986:67).

*Ebalia vertiginosa* Coelho, 1973e:343

*Holotype*.—♂, R/V *Canopus*, sta 14, 01°30'S, 38°43'W, 47 m, 12 Jul 1965, MZUSP 6559.

*Paratypes*.—1 ♀, R/V *Akaroa*, sta 37, 09°27'50"S, 35°17'45"W, 32 m, 6 Sep 1965, MZUSP 6549; 1 ♂, R/V *Canopus*, sta 61, 02°51'S, 38°51'W, 60 m, 25 Aug 1965, MZUSP 6552; 1 ♀, R/V *Akaroa*, sta 59, 09°46'10"S, 35°34'40"W, 31 m, 7 Sep 1965, MZUSP 6555.

*Remarks*.—Transferred to *Lithadia* Bell, 1855 by Coelho & Ramos-Porto (1986:67).

*Speloeophoroides capixaba* Melo & Torres, 1998b:130, figs. 1–6

*Holotype*.—♂, State of Espírito Santo, Proj Rio Doce, sta RD-54, 18°54'08"S, 39°15'04"W, 41 m, 1973, MZUSP 9149.

*Speloeophorus brasiliensis* Melo & Torres, 1998a:126, figs. 7–10

*Holotype*.—1 ♂, Praia do Francês, Marechal Deodoro, State of Alagoas, MZUSP 12045.

Superfamily Majoidea Samouelle, 1819

Family Inachidae MacLeay, 1838

*Podochela atlantica* Coelho, 1997:223, figs. 1a–d

*Holotype*.—♂, R/V *Prof. W. Besnard*, Proj GEDIP, State of Rio Grande do Sul, sta 554, 32°12'S, 50°12'W, 149 m, 9 Mar 1969, MZUSP 3533.

*Paratypes*.—♀ ovig., R/V *Prof. W. Besnard*, Proj GEDIP, State of Rio Grande do Sul, sta 576, 34°28'S, 51°53'W, 155 m, 14 Mar 1969, MZUSP 3522; 1 ♀ ovig., R/V *Prof. W. Besnard*, Proj GEDIP, State of Rio Grande do Sul, sta 547, 30°48'S, 49°18'W, 160 m, Jul 1969, MZUSP 5975.

*Podochela meloi* Sankarankutty, Ferreira & Cunha, 2001:552, figs. 1, 2

*Paratype*.—1 ♀, Estuary near Macau, State of Rio Grande do Norte, MZUSP 13192.

*Podochela minuscula* Coelho, 1972:119, figs. 1b, c

*Paratype*.—1 ♀ ovig., R/V *Alm. Saldanha*, Proj Norte-Nordeste I, sta 1722,

02°13.5'S, 40°43.5'W, 53 m, 29 Oct 1967, MZUSP 7213.

Family Mithracidae Balls, 1929  
*Mithrax (Mithrax) besnardi* Melo, 1990a:20, figs. 1, 2

*Holotype*.—♀, R/V *Prof. W. Besnard*, Proj GEDIP, sta 1871, off Maldonado, Uruguay, 35°02'S, 52°42'W, 2100 m, 12 Aug 1972, MZUSP 4565.

*Paratypes*.—All same data as holotype: 1 ♂, MZUSP 6241; 1 ♀, MZUSP 6242; 1 ♂, MZUSP 7519.

*Remarks*.—The subgenus *Mithrax* was elevated to generic status in a revision of the genus *Mithrax* by Wagner (1990). However, it appears that Wagner was unable to consider *M. (M.) besnardi* as his revision, and Melo's (1990a) description, appeared in the same year.

Family Pisidae Dana, 1851

*Libinia rostrata* var. *bellicosa* Oliveira, 1944:87, figs. 1–3

*Remarks*.—A female specimen has been found from Ilha do Pinheiro, State of Rio de Janeiro, Brazil (MZUSP 8581), with similar information to that mentioned by Oliveira (1944) in his description of this taxon.

Superfamily Parthenopoidea MacLeay, 1838

Family Parthenopidae MacLeay, 1838  
*Heterocrypta aloysioi* Rodrigues da Costa, 1968a:144, figs. 1, 2

*Holotype*.—♀, Praia do Araçá, São Sebastião, State of São Paulo, 3 Sep 1967, MZUSP 8224.

*Paratype*.—1 ♀, same data as holotype, MZUSP 8225.

*Heterocrypta tommasii* Rodrigues da Costa, 1959:595, fig. 1

*Holotype*.—♀ ovig., Cananéia, State of São Paulo, 25°06'00"S, 47°51'05"W, 26 Jul 1959, MZUSP 8226.



*Paratypes*.—All same data as holotype: 1 ♂, 2 ♀, MZUSP 8227; 15 ♀, MZUSP 8580.

*Remarks*.—The holotype was originally deposited in IOUSP.

*Lambrus aylthoni* Righi, 1965:57, fig. 1

*Holotype*.—♂, Ilha Vitória, State of São Paulo, coll. A. Joly, Jul 1963, MZUSP 1820.

*Paratypes*.—1 ♂, Ilha Vitória, State of São Paulo, 5 Jul 1959, MZUSP 2048; 1 ♀, Ilha de Alcatrazes, State of São Paulo, coll. IOUSP, 5 Oct 1959, MZUSP 2049.

*Remarks*.—Transferred to *Parthenope* Weber, 1795 by Righi (1967:114).

*Solenolambrus brasiliensis* Rodrigues da Costa, 1961:1, figs. 1, 2

*Holotype*.—♂, State of São Paulo, 23°58'40"S, 46°80'30"W, MZUSP 8220.

*Paratypes*.—All same data as holotype: 1 ♀, MZUSP 8221; 1 ♀, MZUSP 8222.

Superfamily Cancroidea Latreille, 1802

Family Cancridae Latreille, 1802

*Cancer luederwaldti* Rathbun, 1930a:200, pls. 86–89

*Holotype*.—Sex undetermined, Santos, State of São Paulo, coll. H. Lüderwaldt, MZUSP 948.

*Remarks*.—Synonymized under *Cancer pagurus* Linnaeus, 1758 by Rathbun (1930b:528).

Superfamily Portunoidea Rafinesque, 1815

Family Trichodactylidae H. Milne

Edwards, 1853

*Goyazana rotundicauda* Magalhães & Türkay, 1996:139, figs. 7, 10, 11

*Holotype*.—♂, Igarapé Manduaçu, Paraná Iupia, Northwest of Fonte Boa, State of Amazonas, coll. EPA, 8–9 Oct 1968, MZUSP 7007.

*Sylviocarcinus australis* Magalhães & Türkay, 1996:113, figs. 36–38

*Paratypes*.—1 ♀, 2 ♂, Porto Espiridião, State of Mato Grosso, coll. P. E. Vanzolini, 25 Dec 1976, MZUSP 6301; 7 ♀, 10 ♂, São Luís de Cáceres, coll. E. Garbe, Nov 1917, MZUSP 2561; 1 ♀, 1 ♂, Estrada Transpantaneira, km 59, Poconé, State of Mato Grosso, coll. V. A. Araújo, 23 Jun 1985, MZUSP 9104; 2 ♂, Estrada Transpantaneira, km 59, Poconé, State of Mato Grosso, 27 Jun 1985, MZUSP 9505.

Superfamily Xanthoidea MacLeay, 1838

Family Goneplacidae MacLeay, 1838

*Chasmocarcinus arcuatus* Coelho Filho & Coelho, 1998:800, figs. 1–4

*Paratypes*.—2 ♂, R/V *Alm. Saldanha*, sta 7628, 01°19.5'N, 48°9.4'W, 45 m, 28 Jul 1987, MZUSP 13605. Formerly DOUFPE 536.

*Chasmocarcinus hirsutipes* Coelho Filho & Coelho, 1998:804, figs. 5–7

*Paratypes*.—2 ♂, Proj Geomar, sta 46, 01°05'N, 47°42.4'W, 63 m, 9 Jun 1970, MZUSP 13607. Formerly DOUFPE 514.

*Chasmocarcinus meloi* Coelho Filho & Coelho, 1998:809, figs. 8, 9

*Paratypes*.—2 ♀, R/V *Akaroa*, sta 181, 10°38.15'S, 36°17.2'W, 130 m, 4 Dec 1965, MZUSP 13606. Formerly DOUFPE 508.

*Chasmocarcinus peresi* Rodrigues da Costa, 1968b:335

*Paralectotypes*.—8 ♂, 8 ♀, R/V *Calypso*, sta 1816, Abrolhos, State of Bahia, 17°56'S, 38°40'W, 12 Feb 1962, MZUSP 8230; 5 ♀, 3 ♂, R/V *Calypso*, sta 1815, 21 m, Abrolhos, State of Bahia, 17°56'S, 38°40'W, 12 Feb 1962, MZUSP 8747.

*Speocarcinus meloi* D'Incao & Gomes da Silva, 1992:121, figs. 1–13

*Holotype*.—♂, R/V *Atlântico Sul*, Proj Crustáceo, 32°17'S, 50°48'W, 14 Dec 1984, MZUSP 9577.

*Paratype*.—1 ♀, same data as holotype, MZUSP 9578.

Family Panopeidae Ortmann, 1893  
*Hexanopanopeus heblingi* Rodrigues &  
Loyola e Silva, 1998:263, figs. 1–20

*Holotype*.—♂, South of Ilha Anchieta, Ubatuba, State of São Paulo, 23°26'S, 43°05'W, coll. N. J. Hebling, 7 Jul 1983, MZUSP 12281.

*Paratypes*.—All same data as holotype: 4 ♂, 4 ♀, MZUSP 12282; 1 ♀, MZUSP 12283.

Superfamily Pseudothelphusoidea  
Ortmann, 1893

Family Pseudothelphusidae Ortmann, 1893  
*Brasiliothelphusa tapajoense* Magalhães &  
Türkay, 1986:372, figs. 1, 2

*Holotype*.—♂, Rio Tapajós, Monte Cristo, State of Pará, coll. EPA, 20–28 Jul 1973, MZUSP 6550.

*Paratypes*.—2 ♂, 2 ♀, same data as holotype, MZUSP 6378.

*Kingsleya ytupora* Magalhães, 1986:617,  
figs. 11–13, 30, 31

*Paratypes*.—1 ♂, 2 ♀, Rio Trombetas, State of Pará, Cachoeira Porteira, under stones, shallow water, region of river-rapids, coll. C. Magalhães, 2 Oct 1985, MZUSP 7009; 7 ♂, Rio Curuá-Una, State of Pará, about 200 km upstream of the hydro-electric power station of Curuá-Una, under stones, river rapids, coll. R. Huet and A. G. dos Santos, Oct 1983, MZUSP 7010.

Subsection Thoracotremata Guinot, 1977  
Superfamily Pinnotheroidea De Haan,  
1833

Family Pinnotheridae De Haan, 1833  
*Alarconia guinotae* Coelho, 1996:175,  
fig. 1

*Holotype*.—♂, State of Pará, R/V Alm. Saldanha, sta 1988, 00°26'S, 47°35'W, 25 m, 21 Nov 1968, MZUSP 12353.

*Paratypes*.—5 ♀, same data as holotype, MZUSP 12352.

*Fabia insularis* Melo, 1971:200, figs. 2, 3,  
pl. 2

*Holotype*.—♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 266, 20 Jul 1966, in the bivalve *Glycymeris* (*Glycymerella*) sp., MZUSP 3688.

*Paratypes*.—1 ♀, same data as holotype, MZUSP 3689; 1 ♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 268, 15 m, 17 Jul 1966, in the bivalve *Glycymeris longior* (Sowerby), MZUSP 36871; 1 ♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 251, 18 m, 17 Jul 1966, MZUSP 3690; 1 ♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 175, 26 m, 26 Jul 1966, MZUSP 3691; 1 ♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 174, 23 m, 22 Jul 1966, MZUSP 3692; 1 ♀, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 267, 10 m, 19 Jul 1966, MZUSP 3693.

*Remarks*.—Synonymized by Fennuci (1975:173) with *Fabia emiliai* (Melo, 1971), but subsequently reinstated by Martins & D'Incao (1996:6).

*Pinnixa aidaae* Righi, 1967:107,  
figs. 21–26

*Holotype*.—♀ ovig., Enseada de Caraguatubá, State of São Paulo, 23°38'S, 43°32'W, 5 km north of Rio Juqueriquerê, coll. J. Petersen, 5 Nov 1964, MZUSP 2231.

*Allotype*.—1 ♂, same data as holotype, MZUSP 2232.

*Paratypes*.—2 ♂, 6 ♀ (5 ovig.), same data as holotype, MZUSP 2233.

*Remarks*.—Transferred to *Austinixa* Heard & Manning, 1997 by Heard & Manning (1997:393).

*Pinnixa angeloi* Righi, 1967:110,  
figs. 27–32

*Holotype*.—♂, São Vicente, State of São Paulo, coll. W. Narchi, 17 Dec 1964, MZUSP 2136.



*Allotype*.—1 ♀, same data as holotype, MZUSP 2137.

*Paratypes*.—4 ♀, 1 ♀ juv, same data as holotype, MZUSP 2138; 1 ♀, Bertioğa, State of São Paulo, coll. L. R. Tommasi, Jan 1964, MZUSP 2139; 1 ♀, 1 ♂, Enseada de Caraguatatuba, State of São Paulo, coll. J. A. Petersen, 5 Nov 1964, MZUSP 2140; 1 ♂, Ilha de Alcatrazes, State of São Paulo, coll. IOUSP, Jul 1965, MZUSP 2141; 1 ♂, Santos, State of São Paulo, coll. O. Schubart, Jun 1958, MZUSP 2142; 11 ♂, same data as holotype, MZUSP 2143; 2 ♂, 3 ♀ (2 ovig.), Praia Grande, State of São Paulo, 10 km north Itanhaém, coll. S. de A. Rodrigues, 15 Aug 1965, MZUSP 2144; 5 ♀, Mongaguá, State of São Paulo, coll. E. Schlenz, 9 Oct 1965, MZUSP 2145.

*Remarks*.—Synonymized under *Pinnixa patagoniensis* Rathbun, 1918 by Fenucci (1975:177), and subsequently transferred to *Austinixa* Heard & Manning, 1997 by Heard & Manning (1997:393).

*Pinnotheres emiliai* Melo, 1971:198,  
fig. 1, pl. 1

*Holotype*.—♂, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 102, 1 Jul 1966, in the bivalve *Anadara brasiliana* (Lamarck), MZUSP 3480.

*Paratype*.—1 ♂, Proj Ilha Grande, State of Rio de Janeiro, R/V *Emilia*, sta 266, 20 Jul 1966, in the bivalve *Glycymeris* (*Glycymerella*) sp., MZUSP 3481.

*Remarks*.—New combination proposed by Fenucci (1975:173) as *Fabia emiliai* (Melo, 1971), but subsequently reinstated by Martins & D'Incao (1996:11).

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